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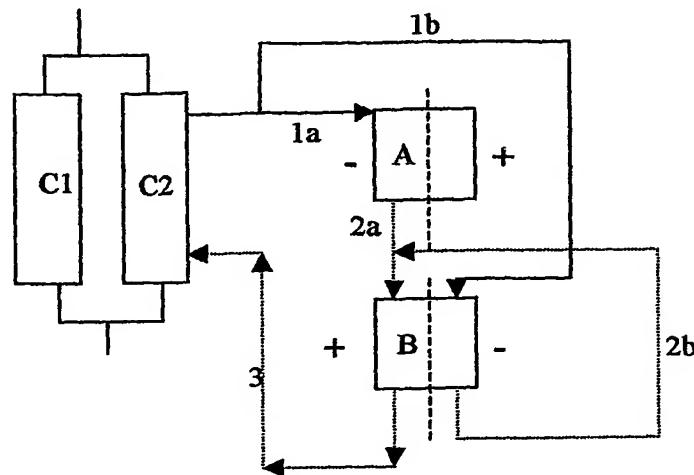
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(54) Title: ELECTROCHEMICAL NITRATE DESTRUCTION



(57) Abstract: Devices and methods are presented for removal and destruction of nitrate from water using an ion exchange medium from which the nitrate is eluted using brine, and in which the so generated eluent is sequentially reduced and oxidized in distinct compartments to form nitrogen from nitrate and ammonia, respectively. In especially preferred devices and methods, the reduced and oxidized eluent is re-reduced to electrochemically destroy hypohalites formed during oxidation. Among other advantages, contemplated devices and methods allow nitrate destruction with minimal concomitant production of nitrite and hypohalites.

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